

**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Commission Meeting Date: December 6, 2013

Agenda Item: 5A

Subject: Marda Dillree Corridor Preservation Acquisition Request – WDC

Background: Financial Hardship Request – Heirs of Mildred Schenck

- The property address is 3112 South 2000 West in Syracuse. This is a modular home, built in 1995 and is on 4.5 acres.
- Michele Billings, the daughter of Mrs. Schenck, lives in California and has no way to keep and maintain the property.
- The property has appraised for \$255,500. The value conclusion is based on .56 acres with a modular home (\$151,500) and 3.37 acres of vacant land (valued at \$30,800 per acre making the excess land value \$104,000).
- This property is in the path of the preferred alignment of the West Davis Corridor.

Exhibits: Map of area

Advisory Council Recommendation

Approval

X

Decline

Commission Action Requested:

Authorization to obligate Marda Dillree Corridor Preservation Revolving Loan Funds

Prepared by: Dian McGuire
Presented by: Lyle McMillan

Advisory Council Date: November 19, 2013

Marda Dillree Corridor Preservation Budget & Obligations

Balance Forward: \$8,357,660

Revenue: \$340,570

Property Purchase & Expenses: (\$1,883,653)

WDC	Schultz	vacant land	11/21/13	-1,681,770.00
SR-9	Elkert / Longley	vacant land	11/19/13	-154,000.00
N/A	Misc Expenses			-47,883.49

Fund Balance as of 12/04/13 \$6,814,576

Funds Obligated, But Not Yet Disbursed

Corridor	Owner	Type of Property	Commission Approval	Amount	Status
MVC	GLB Properties	Industrial	3/6/12	555,000.00	Pending
WDC	Harvey	vacant land	9/3/13	718,500.00	Doc Prep
WDC	Stillwater / Brighton Homes	vacant land	9/3/13	1,275,275.00	Doc Prep
WDC	Land Solutions / Stonefield	vacant land	9/3/13	1,883,000.00	Doc Prep
US-89	Tony Arnone	vacant land	11/5/13	838,000.00	Doc Prep

Total Obligated, But Not Yet Disbursed: \$5,269,775

FUND BALANCE \$1,544,801

Applications Pending

Corridor	Owner	Type of Property	Date of Advisory Council	Amount
WDC	Michele Billings	residential	11/19/13	255,500.00

Estimated Total of Requests: \$255,500

Balance if all applications are approved: \$1,289,301

Utah Transportation Commission Meeting Agenda Fact Sheet

Commission Meeting Date: December 6, 2013

Agenda Item: 5B

Subject: Marda Dillree Corridor Preservation Acquisition Request - Mountain View Corridor

Background: Imminent Development – Property Reserve, Inc

- The property is located at approximately 350 N. John Glenn Road, Salt Lake City. This is vacant land currently owned by Property Reserve, Inc. (PRI).
- The PRI parcel is approximately 63 acres and is zoned industrial and light manufacturing. PRI is under contract with a developer to sell the entire 63 acres.
- UDOT needs 5.62 acres along the southern border of the 63 acre parcel at Apollo Road for the future alignment of the Mountain View Corridor (MVC) north of I-80.
- PRI and the buyer are willing to separate off what is needed for the MVC and contract with UDOT to receive payment in July 2014. At that time, the MVC will have reimbursed the Marda Dillree fund with enough to purchase the 5.62 acres.
- The land has appraised for \$1,102,000, which is \$196,000 per acre/\$4.5 per square foot.

Exhibits: Map of area

Advisory Council Recommendation

Approval

X

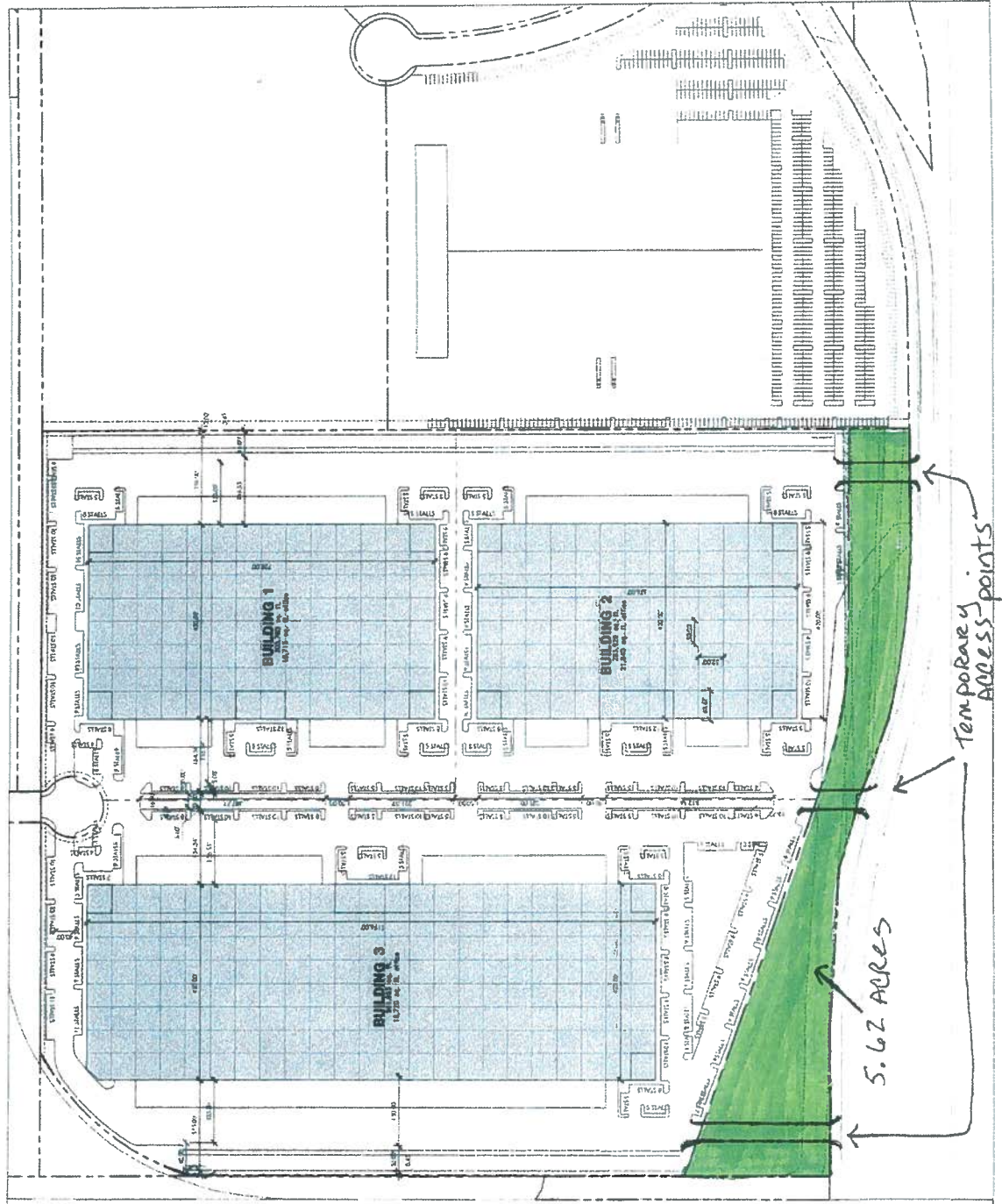
Decline

Commission Action Requested:

Authorization to obligate Marda Dillree Corridor Preservation Revolving Loan Funds

Prepared by: Dian McGuire
Presented by: Lyle McMillan

Advisory Council Date: November 19, 2013





**Utah Transportation Commission Meeting
Agenda Item Fact Sheet**

Commission Meeting Date: December 6, 2013

Agenda Item #: 6

Agenda Item Title: Accomplishments, Conditions and Needs Report

Presented by: Rob Clayton and Pat Morley

Background:

Rob Clayton will give a presentation on ITS Development and Operations' accomplishments, conditions and needs.

Pat Morley will give a presentation on Aeronautics' accomplishments, conditions and needs.

Exhibits/Handouts:

Audio/Visual: PowerPoint Presentations

Commission Action Requested:

☒ For Information/Review Only
☐ For Commission Approval

Motion Needed for Approval:

Traffic Management Division

Accomplishments and Needs Report

Report to the Utah Transportation Commission
December 6, 2013

Rob Clayton, P.E., PTOE
Director of Traffic Management



Final Four Strategic Goals Focus of the Traffic Management Division

1. Preserve Infrastructure
 - Monitor & maintain our devices / equipment
2. Optimize Mobility
 - Optimize signal timing and maintenance
 - Manage traffic flow (ramp meters, incidents, etc.)
 - Influence travel patterns with traveler information
3. Zero Fatalities
 - Warn of dangerous situations (weather, construction, incidents)
 - Coordinate with Public Safety / local law enforcement
4. Strengthen the Economy
 - Facilitate efficient movement of goods and services



Traffic Management Division

Selected 2013 Accomplishments

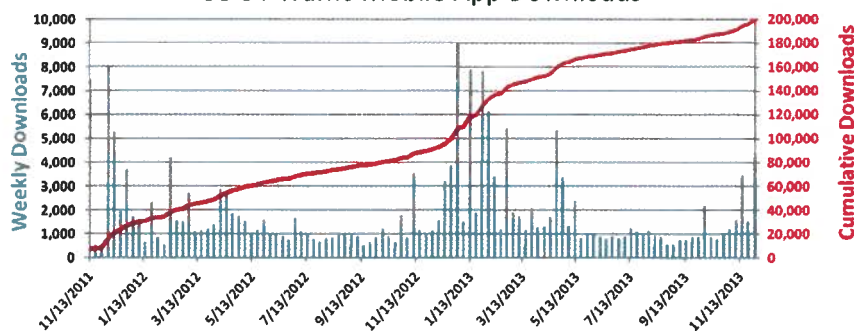
1. Improved Traveler Information
2. Strategic ATMS expansion
3. Traffic operations expertise provided for key Region projects
4. Traffic Signal Program: Transition to World Class



Improved Traveler Information

UDOT Traffic Mobile App

UDOT Traffic Mobile App Downloads



Improved Traveler Information Little Cottonwood Canyon Communications Tool

Project Goal: To provide consistent and timely Little Cottonwood Canyon traveler information from the Town of Alta, Unified Police Dept, Utah Avalanche Center, and UDOT (avalanche control, UDOT Traffic, maintenance shed).

- UDOT-built tool to serve all public partners within LCC
- Housed at Alta dispatch
- Over 120 messages sent in the first year.



Improved Traveler Information Little Cottonwood Canyon Communications Tool

BEFORE:

Tweet from @UPDCanyonAlerts –
Road Closed at 9am (Posted at 8:15am)

Tweet from @TownofAlta –
Road Closed at 8am (Posted at 7:30am)

Tweet from @UtahAvalancheCenter –
Road Closed at 8am (Posted at 7:45am)

Message to Canyon Users from @UDOTAvy –
Road Closed at 8:30am (Posted at 8am)

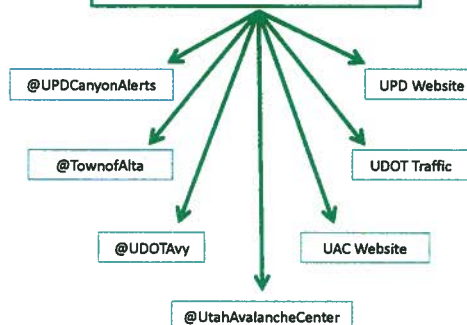
UPD Canyon Alerts Website –
Updated at 9:45am

Utah Avalanche Center Website –
Not updated for this closure because of a lack of consistent information

UDOT Avalanche Website –
Not updated for this closure due to time/resource constraints

AFTER:

Message received at Alta Dispatch:
SR-210 CLOSED AT 8AM FOR AVALANCHE
CONTROL WORK. EXPECTED TO REOPEN
AT 8:45AM.

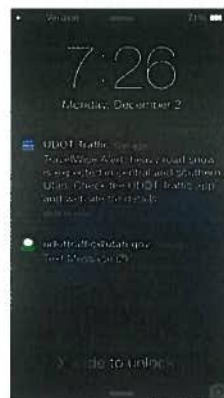


Improved Traveler Information: Travelwise Alerts

Program Goal: To alert the traveling public of large, impactful events via push-alerts through the UDOT Traffic app.

Used For:

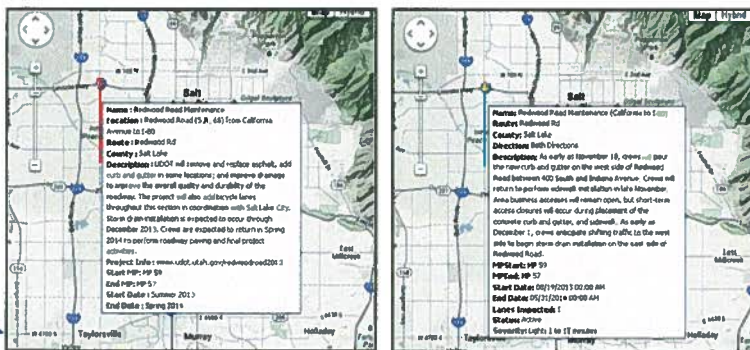
- Extreme weather events
- Air quality
- Large special events
- Crashes with Regional impact



Innovation in Traveler Information UDOT Lane Closure Reporting

Program Goal: To report every lane closure on UDOT roads throughout the state, in advance and in real-time.

- Over 500 projects and over 100 project alerts entered into the Lane Closure reporting system in 2013.



Innovation in Traveler Information

Citizen Reporter Program

Program Goal: To improve the quality and quantity of road weather information given to the public, especially on rural roads.

- One citizen report has the potential to help tens of thousands



Strategic ATMS expansion

Region 1 highlights

Completed

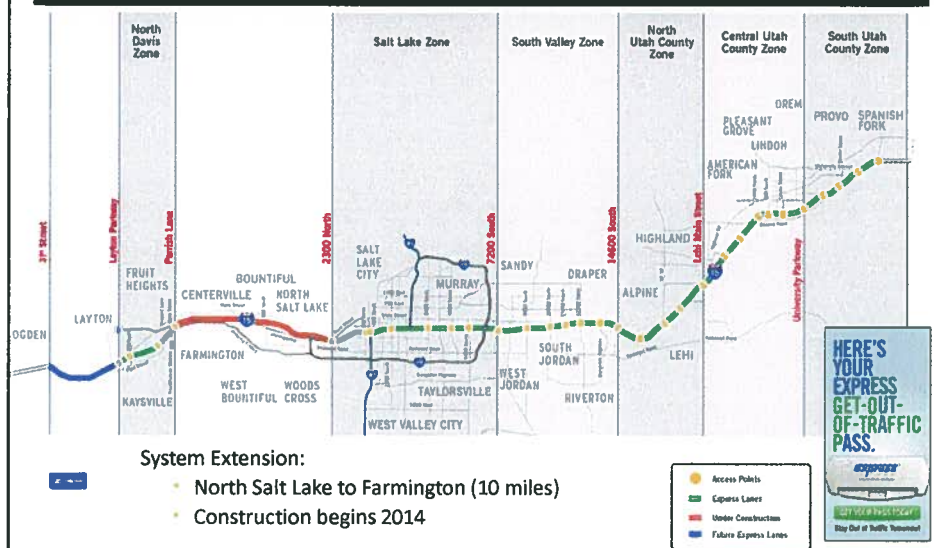
- SR-39, VMS at mouth of Ogden Canyon
- SR-39, Fiber in Ogden Canyon
- I-15 Fiber, Brigham City to SR-30
- 1 new RWIS, I-84 at Riverdale Rd

Underway

- 56 Signals to be interconnected
- VMS, WB US-89 at Brigham City Main
- I-15 South Davis Express Lanes



Strategic ATMS expansion Region 1 highlights



Strategic ATMS expansion Region 2 highlights

Completed

- I-80, Variable Speed Limit in Parley's Canyon
- Big Cottonwood Canyon Fiber, 3 RWIS
- US-40 and SR-248 Fiber
- Mountain View Corridor, 2 RWIS

Underway

- Little Cottonwood Canyon Fiber
- 75 Signals to be interconnected
- Tooele County dispatch integration
- I-80 Wanship / Coalville RWIS and CCTV
- SR-201, 5600 W to I-80 Fiber and CCTV



Strategic ATMS expansion

Region 3 highlights

Completed

- I-15, Payson to Spanish Fork Fiber, Detectors, CCTV, RWIS
- I-15, 7 Audio over IP HAR in Utah County
- University Parkway, State St to 800 East Fiber
- 2 new RWIS, Provo and Orem

Underway

- I-15, VMS NB in Lehi
- Spanish Fork dispatch integration
- US-40, CCTV in Naples, Roosevelt
- Fiber to new Lehi Maintenance shed



Strategic ATMS expansion

Region 4 highlights

Completed

- I-15, Holden to Scipio Fiber, CCTV, HAR
- I-15, Hamilton Fort to Cedar City Fiber
- I-15, South Beaver to North Beaver Fiber
- I-70 Fish Springs Bridge ice warning system
- Brian Head & Beaver Canyon VMS



Underway

- I-15, North Beaver to Manderfield Fiber, VMS, CCTV, RWIS
- I-70 / US-6 / US-191 VMS
- US-6 Fiber
- Lake Powell Ferry VMS (2)



Innovation in ATMS

SR-31 burn scar portable RWIS

Project Goal: Mitigate the threat of debris flows resulting from rainfall over the Seeley Fire burn scar.

- Portable RWIS deployed in watershed above burn scar
- 18 automated warnings
- Warning issued for all six SR-31 closures in 2013
- No injuries or equipment losses in 2013



Innovation in ATMS

Winter Road Weather Index

Project Goal: Create a performance measure that indicates the severity of snow, ice and blowing snow on a road surface using real time road weather data.

- Region 3 pilot project to optimize snow removal plans
- Automated monitoring of RWIS data
- Measure storm intensity
- Real-time reporting of current road weather conditions.



ATMS System Health

Real-time device monitoring

Demonstration of new System Health Monitor



Traffic Operations Expertise

TMD support for Region projects

TMD team dedicated to collaborate with the Regions in support of key Region projects.

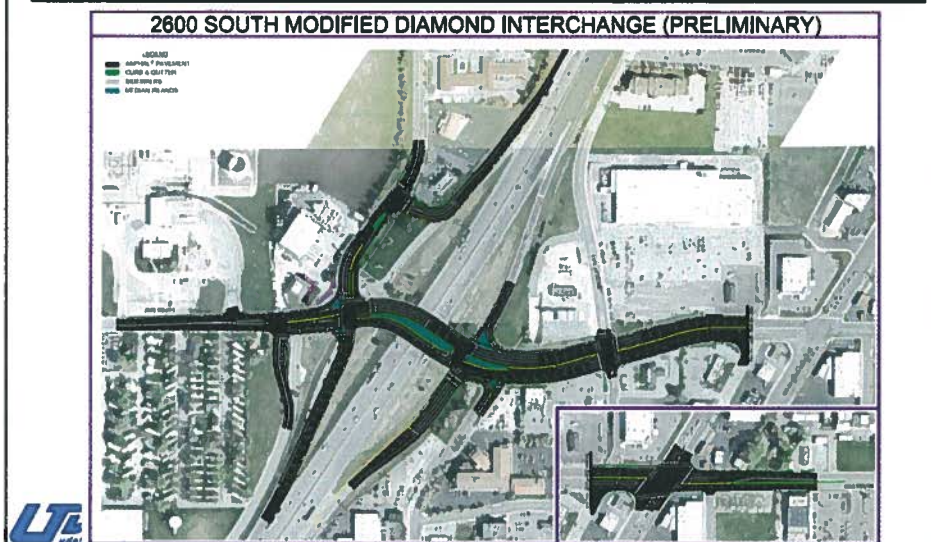
Highlights 25+ projects supported:

- I-15 South Davis Operational Improvements
- I-15, St. George Blvd Diverging Diamond Interchange
- I-15 Point Project
- St. George Blvd at Bluff St intersection
- University Parkway at State St intersection (Orem)
- University Parkway at 2230 North intersection (Provo)



Traffic Operations Expertise

TMD support for Region projects



Innovation in Traffic Signals

AASHTO Technology Implementation Group

AASHTO
THE VOICE OF TRANSPORTATION

AASHTO TECHNOLOGY IMPLEMENTATION GROUP

UDOT's signal performance measures project selected by AASHTO to promote in the TIG Program

→ UDOT's signal performance measurement program was developed through a collaborative partnership with Indiana DOT and Purdue University.

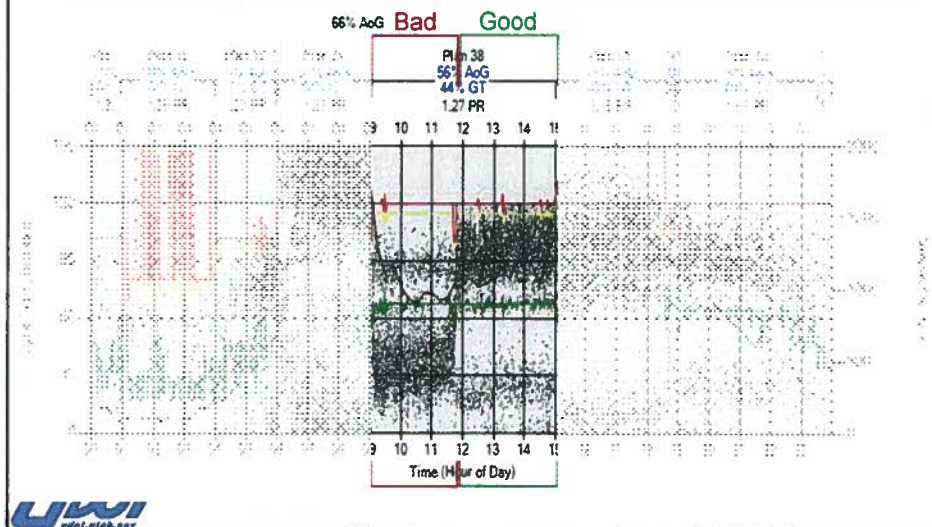
UDOT signals with Performance Measures:

- 2012: 50
- 2013: 716



Innovation in Traffic Signals

Real-time performance measures



Innovation in Traffic Signals

Management-level performance measurement

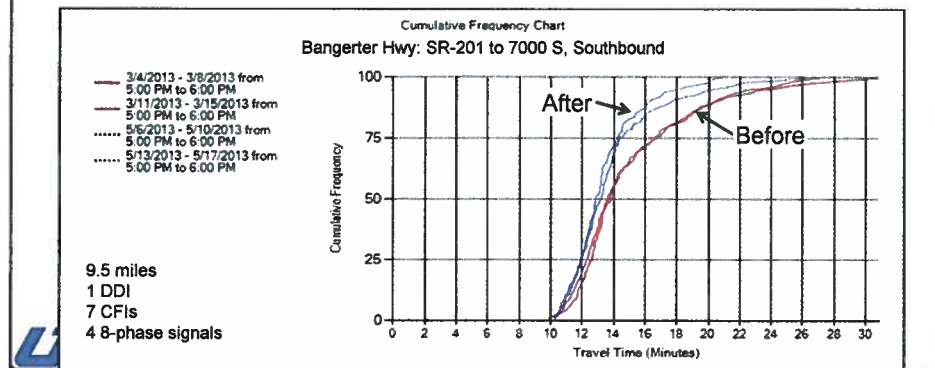
Demonstration of new reporting capability:

<http://udottraffic.utah.gov/signalperformancemetrics/>

Innovation in Traffic Signals

Corridor evaluation using INRIX travel times

- GPS-based, aggregated traffic data for major state routes
- Outcome-based, independent evaluation of signal coordination
- Pilot project was successful



Traffic Signal Program

Preventative Maintenance

- Replace failed or failing equipment (near end of life) in an orderly manner
- Good roads cost less → Good signal operations cost less
- Recent Davis County wind event resulted in minimal damage to signal equipment compared to previous storms



2014, 2015 Priorities

- UDOT Traffic personalized alerts (this month)
- Streaming audio alerts on the UDOT Traffic app
- Dashboard for traffic congestion
- Dashboard for ATMS & signals device health
- ATMS device asset management
- Travel time monitoring in the I-15 Point Project
- Wrong-way detection on I-15
- Replace statewide traffic signal control software
- Prepare for Connected Vehicle implementation

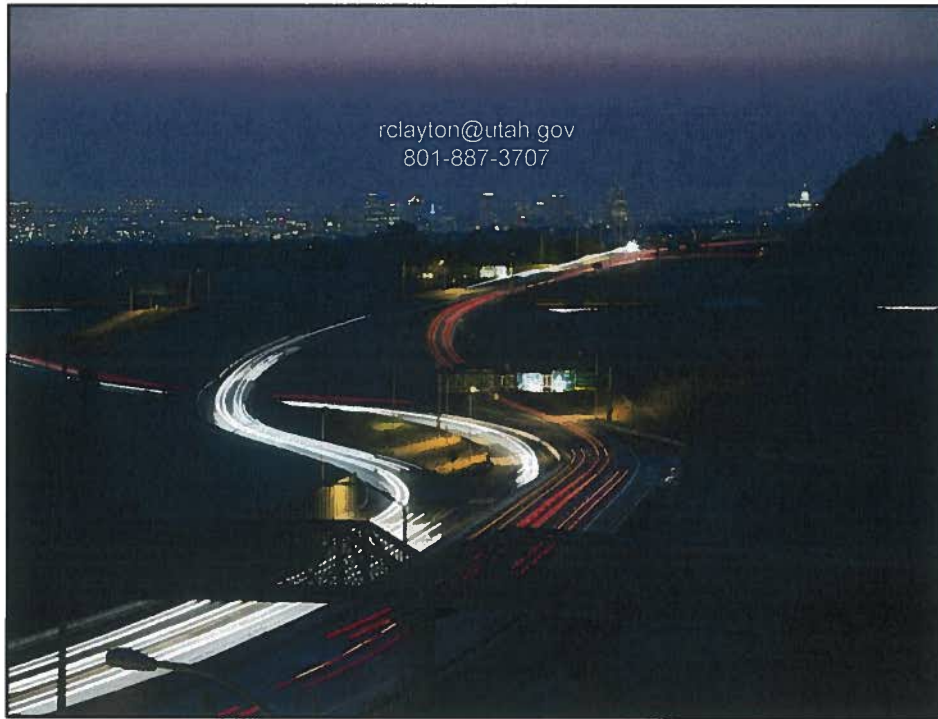


FY 2015 Funding Request

Program	Purpose	FY 2014	FY 2015
Traffic Signal Operations	Traffic signal maintenance and operations; consultant and contractor support	\$ 5.6 M (+ \$ 2.0 M)	\$ 5.6 M
ATMS Deployment	New devices; fiber optics; software solutions	\$ 3.0 M	\$ 3.0 M
ATMS Maintenance	Equipment; consultant and contractor support	\$ 0.8 M	\$ 0.8 M
Total (State)		\$ 9.4 M (\$ 11.4 M)	\$ 9.4 M

- Existing funding levels are sufficient





DIVISION OF AERONAUTICS

Annual Needs and Accomplishments
Presentation to
Utah Transportation Commission
December 6, 2013

Airport Projects Funding

Federal (FAA) Grants

\$40.4 Discretionary

3.6 State Apportionment

13.0 Entitlement

\$57.0 Million

Thirty-one Federal Projects

Airport Project Funding

State Grants

(Aeronautics Restricted Account)

\$ 642,180	20 Federal Projects (match)
<u>1,734,778</u>	<u>12</u> State Only Projects (No FAA Funds)
\$ 2,376,958	32 Total State Grants

Significant Federal Grants

Salt Lake City International Airport

\$18.7 Million De-ice pad and reconstruction of apron areas

St. George Airport

\$12.1 Million Reimbursement and entitlement

Wendover Airport

\$ 7.0 Million Runway extension

Vernal Airport

\$ 6.5 Million Land acquisition & design of new runway

Richfield Airport Runway reconstruction

\$ 7.2 Million

Salt Lake International Airport



De-icing Operations



Frost can destroy enough lift to prevent a plane from taking off safely

De-icing Operations



Significant Federal Grants



\$1.4 Million for two Aircraft Rescue and Fire Fighting (ARFF) Vehicles

- Provo Airport \$750K
- Vernal Airport \$661K

Salt Lake City International Airport Aircraft Rescue Fire Fighting Training Center

Every effort is made to prevent an accident but training is essential to be prepared for a disaster.



Bryce Canyon Airport



\$659K Project to Rehabilitate South Apron & Taxiway

Wendover Airport



\$7M Runway Extension

Price – Carbon County Airport



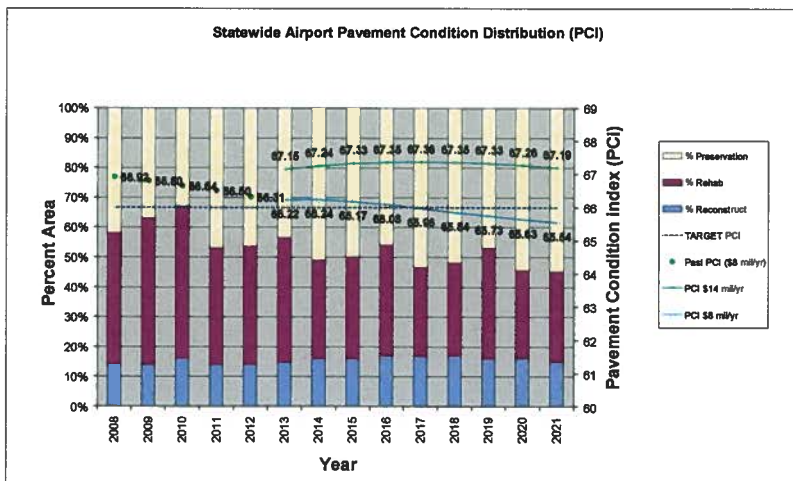
\$8M Runway Reconstruction

Richfield Airport



6 Year, \$27.5M New Runway Project

Airport Pavement Condition



Impact of Sequestration

- Federal FY 2013: FAA required to cut \$486 Million. Majority came from Airport Capital Improvement Program.
- Federal FY 2014: FAA estimates it will be required to cut \$697 Million from its budget.
- Possible loss of contract Air Traffic Control Tower service at Provo and Ogden airports.
- Reduction of Airport Capital Improvement Program funding.

Essential Air Service at Moab

- Organized effort to convince the US DOT Essential Air Service Division to award contract to SkyWest Airlines.
- Direct Flights: SLC - Moab
- Decision expected in the next few weeks.



Unmanned Aerial Systems (UAS)



Utah is competing for one of six national test sites

Division of Aeronautics

Questions?

**Utah Transportation Commission Meeting
Agenda Item Fact Sheet**

Commission Meeting Date: December 6, 2013

Agenda Item #: 7

Agenda Item Title: Express Lanes Update

Presented by: Jason Davis

Background:

Current status of Express Lanes performance, including usage, safety, system expansion, and operational efficiency to the user.

Exhibits/Handouts: PowerPoint

Audio/Visual:

Commission Action Requested:

☒ For Information/Review Only

☐ For Commission Approval

Motion Needed for Approval:

Fact sheet prepared by: Jason Davis

Fact sheet reviewed by senior leader: Jason Davis

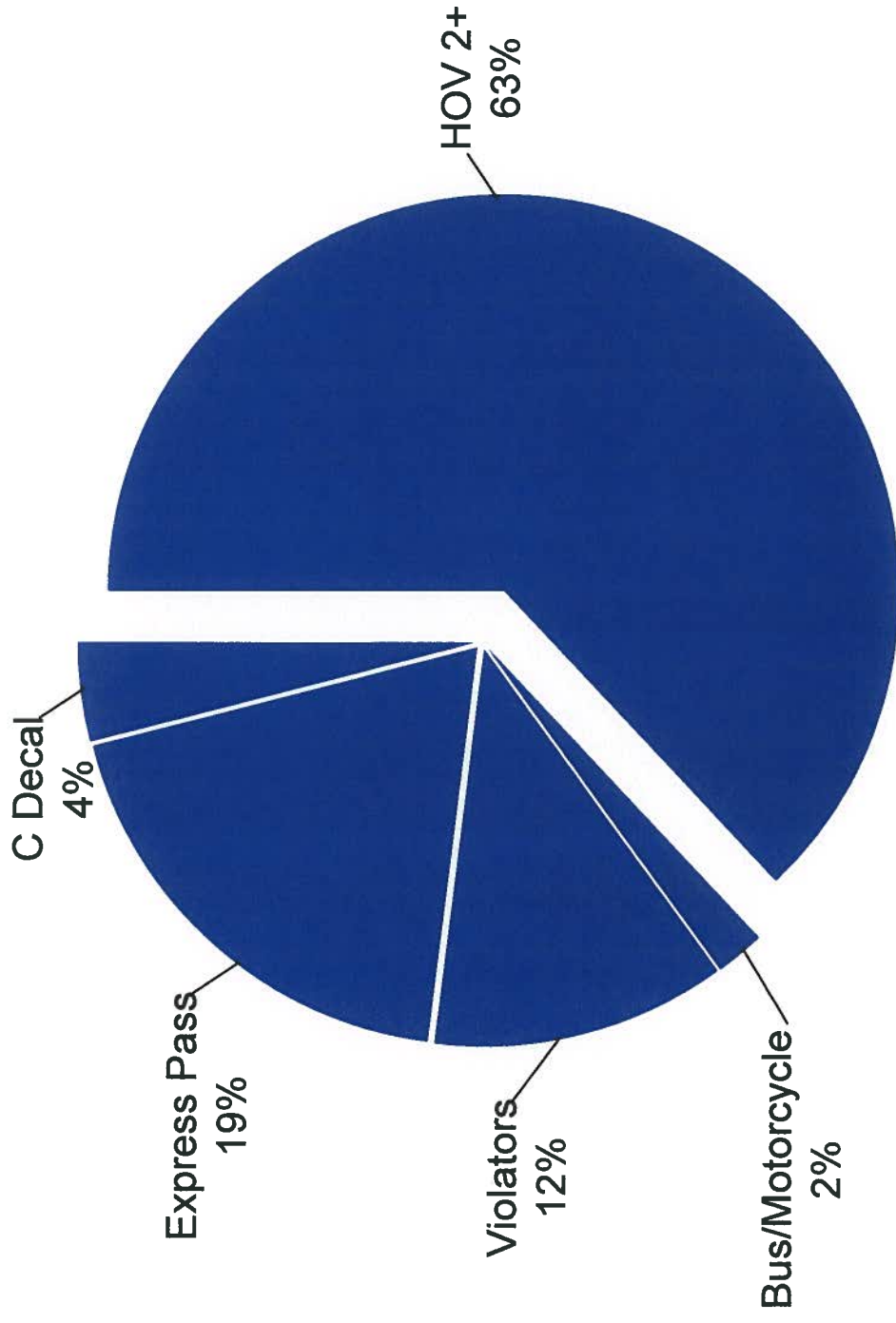
Date submitted: 11/27/13



2013 Annual Report
for Transportation Interim Committee
November 2013

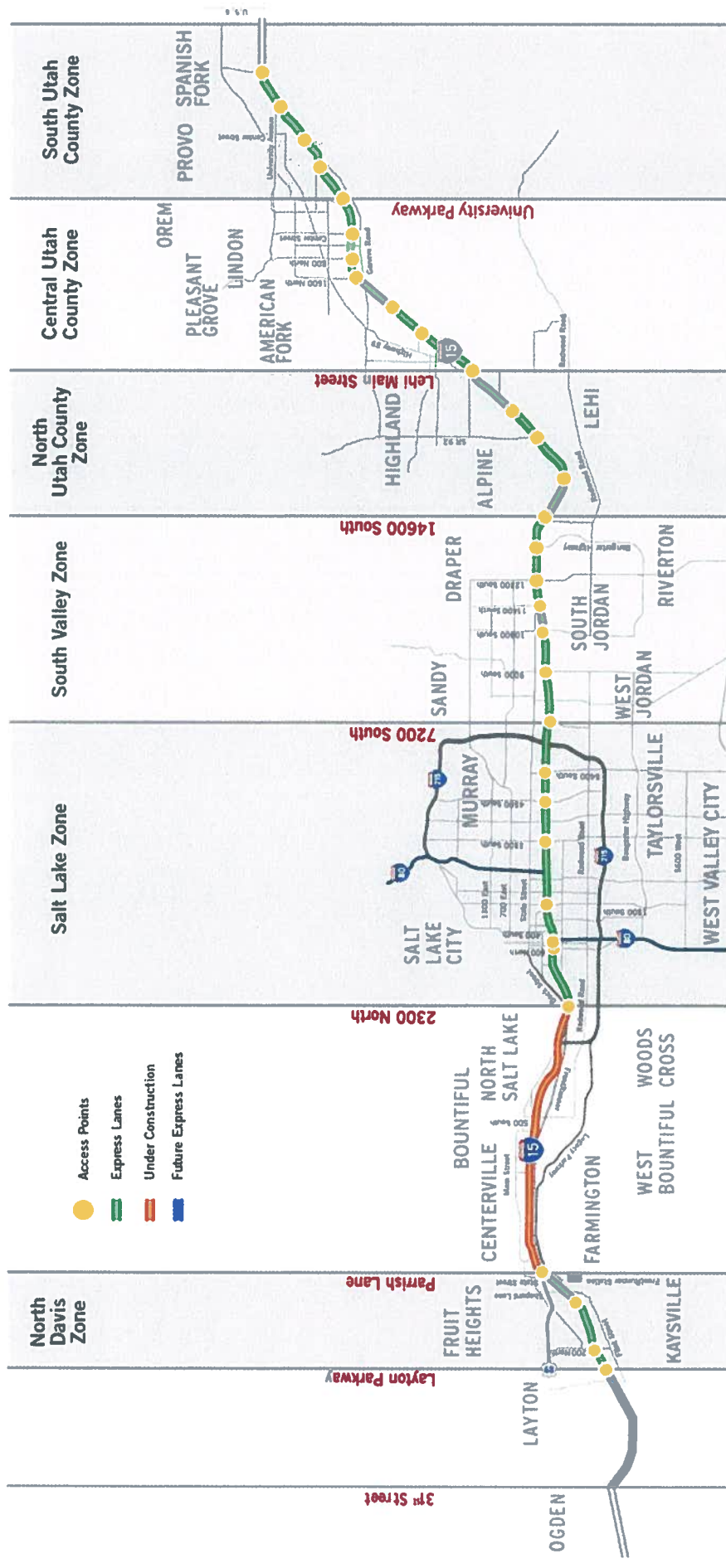
Express Lanes Users

Vehicles using the Express Lane



Express Lane Overview

Access Points and System Overview



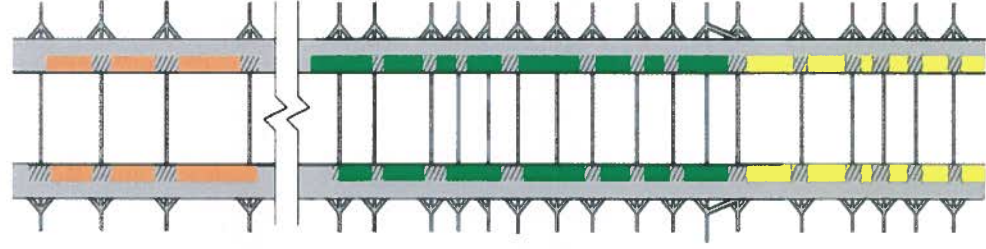


Express Lane Overview

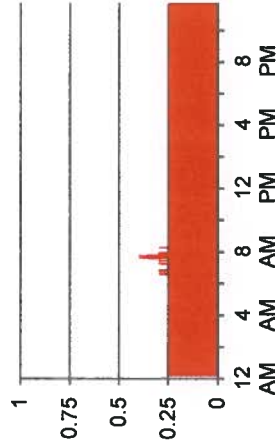
Tax, fee or charges for usage

Toll Rates on Typical Weekday

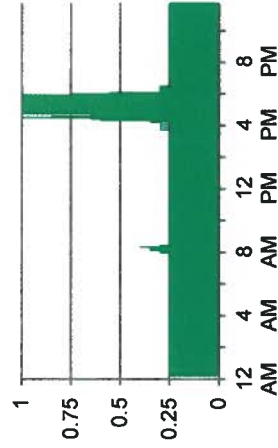
September 17, 2013 Sample



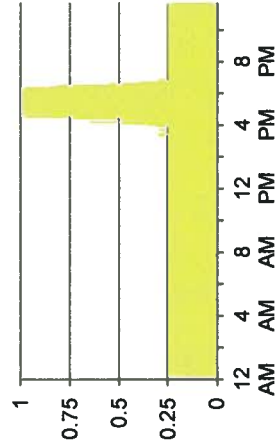
Davis



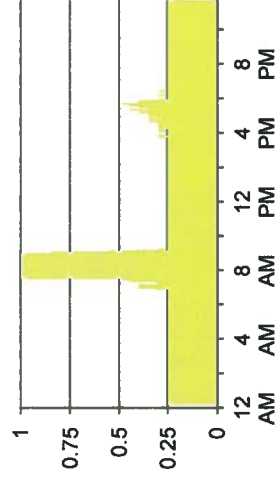
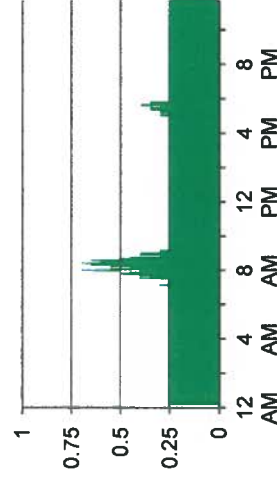
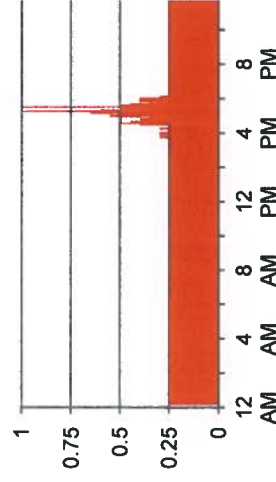
Salt Lake



South Valley



Southbound



Northbound





Express Lane Overview

Variations in speed between lanes

AM Peak Hour
8 – 9

PM Peak Hour
5 – 6

Zone	AM Peak Hour 8 – 9		PM Peak Hour 5 – 6	
	General Purpose Speed	Express Lane Speed	General Purpose Speed	Express Lane Speed
NB Davis	71.6	75.3	59.7	66.3
NB Salt Lake	63.1	67.7	62.6	66.5
NB South Valley	56.1	64.5	63.6	68.7
NB North Utah County	67.4	73.9	64.4	70.0
NB Central Utah County	69.8	72.0	65.5	70.9
NB South Utah County	68.8	72.2	68.2	71.8

Express Lane Overview

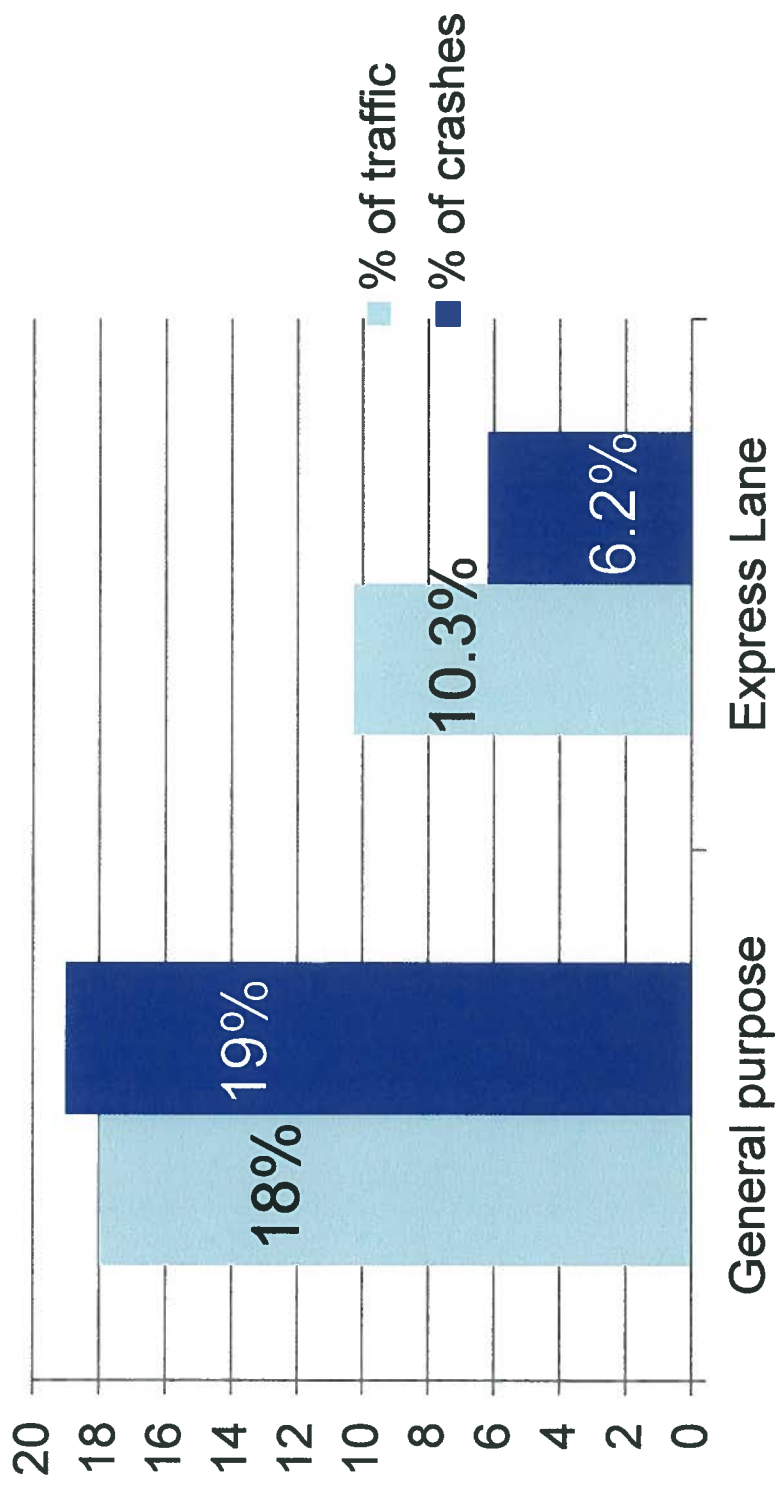


Enforcement

	Oct 2012	Nov 2012	Dec 2012	Jan 2013	Feb 2013	Mar 2013
Citations	118	160	91	109	118	177
Warnings	115	145	85	85	123	201
Month Total Contacts	233	305	176	194	241	378
Apr 2013 May 2013 Jun 2013 Jul 2013 Aug 2013 Sep 2013						
Citations	377	195	432	430	424	146
Warnings	268	333	477	524	506	132
Month Total Contacts	645	528	909	954	930	278

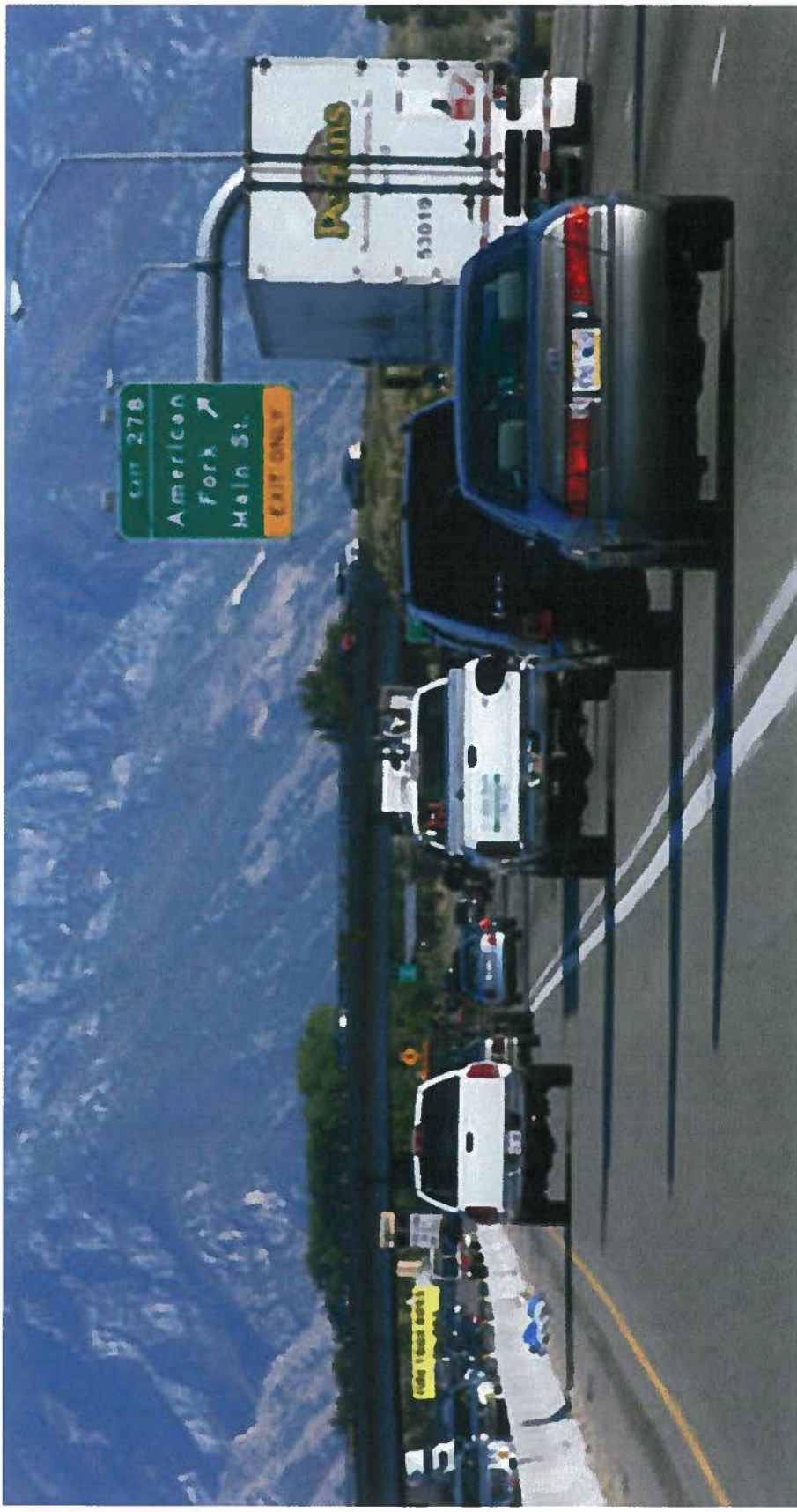
Express Lane Overview

Safety - Percentage of Crashes



Express Lane Overview

Conclusion



Optimizing Mobility

 **expres**
LANES

UDOT
udot.utah.gov

**Utah Transportation Commission Meeting
Agenda Item Fact Sheet**

Commission Meeting Date: December 6, 2013

Agenda Item #: 8

Agenda Item Title: Project Updates

Presented by: Cory Pope

Background:

HB377 – State Transportation Fund

During the 2013 General Legislative Session, HB377 directed the use of certain bond proceeds. As part of the bill, \$10 million was directed to the Transportation Fund to pay all or part of the costs of projects to be prioritized by the Commission. The Department will provide an update to the Commission regarding the status of these funds.

To date, the following four (4) projects have been programmed utilizing these funds:

- I-15/10600 So. Interchange Improvements - \$6,149,000
- I-80 at State Street Interchange Environmental Study - \$2,000,000
- Utah Valley University Roundabout Improvements - \$1,000,000
- Winter Closure Study - \$ 200,000

The current balance available for programming is \$651,000.

Exhibits/Handouts:

Audio/Visual:

Commission Action Requested:

☒ For Information/Review Only
☐ For Commission Approval

Motion Needed for Approval:

Fact sheet prepared by: Cory Pope

Fact sheet reviewed by senior leader: Cory Pope

Date submitted:

December 2, 2013

HB 377 Transportation Fund Projects

Projects	Scope	Schedule	Budget
I-15/10600 S. Interchange Improvements - R2	Provide modifications to allow mall traffic direct access, thereby eliminating weave movement on 10600 So. Currently doing traffic studies and working with FHWA, the city, and property owners to get the answers needed to continue to move forward on the project.	This project is expected to be constructed in 2015	\$6,149,000
I-80/State Street Enviornments Study - R2	<p>(1) Options to improve the I-80 east bound weaving issues, from the "spaghetti bowl" area to the state street exit.</p> <p>(2) The I-80 bridge over State Street will be examined. Currently, the inside No. 1 lanes in both directions run into the second left turn lanes onto I-80, the bend caps and the girders length being the main limiting factors.</p> <p>(3) The efficiency of the State Street interchange operation</p> <p>(4) Improve vehicular, bicyclists and pedestrians safety in the study area.</p> <p>(5) Improvement to the traffic flow of the surrounding surface streets base on the potential redevelopment indicated by South Salt Lake City.</p>	The RFQ selection of the EIS team will be completed in the first part of January. It is anticipated that the EIS study will last 18 months.	\$2,000,000.00
UVU Roundabout Improvements - R3	The scope is to increase the size of the roundabout to allow two lanes of traffic to go all the way around and onto South Campus Drive. This will increase the capacity of the roundabout which will also decrease the traffic congestion on University Parkway at the Sandhill intersection by reducing the queue of cars waiting to turn and get through the roundabout.	We are on schedule to advertise in March of 2014. The project will be built in the summer of 2014 after school is out.	\$1,000,000 Utah Valley U. has contributed an additional \$200,000
Winter Closure Study - Statewide Planning	<p>The purpose of this study is to evaluate the broad benefits and costs of keeping candidate routes open year-round by providing winter maintenance. Currently 8 State Routes are being studied.</p> <ul style="list-style-type: none"> • Estimate costs <ul style="list-style-type: none"> o Operations-staff, material, fuel, etc. o Capital equipment costs o Roadway improvements • Assess benefits and impacts of candidate routes <ul style="list-style-type: none"> o Travel time savings o Safety o Community connections o Recreation property access o Potential tax benefits from development opportunities 	Completion - April 2014	\$200,000